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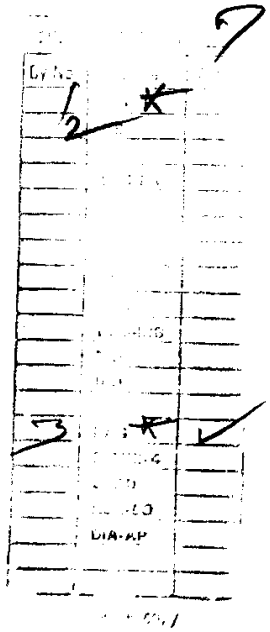
SECRET

PRIORITY

OUT62951

1967 AUG 26 06 48Z



P 260510Z AUG 67
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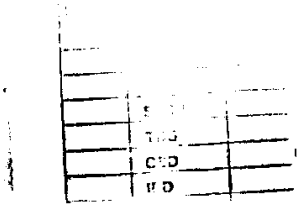
S E C R E T CITE NPIC 1608.

PREFACE
THE FOLLOWING INFORMATION REPRESENTS A PRELIMINARY ANALYSIS OF AERIAL PHOTOGRAPHY FROM GLASS LAMP MISSION G-976, 24 AUG 67.

(TEXT WHICH FOLLOWED WAS IDENTICAL TO ABOVE CITED MISSION)
S E C R E T

-END OF MESSAGE-



Declassification Review by NGA

SECRET

(ALSO PASSED TO [redacted]

25X1

GROUP 1
Excluded from automatic downgrading and declassification

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OUT62951

PREFACE

THE FOLLOWING INFORMATION REPRESENTS A PRELIMINARY ANALYSIS OF AERIAL PHOTOGRAPHY FROM GLASS LAMP MISSION G-976, 24 AUG 67. ~~THE NUMBER AT THE RIGHT MARGIN OF THE HEADER LINE IS THE~~ COMIREX TARGET NUMBER. PLEASE REMOVE

~~SYMBOLS USED TO INDICATE CONDITIONS WHICH AFFECT THE~~ APPEARANCE OF THE TARGET ON PHOTOGRAPHY ARE AS FOLLOWS--
C @CLEAR¤, SC @SCATTERED CLOUD COVER¤, HC @HEAVY CLOUD COVER¤, H @HAZE¤, CS @CLOUD SHADOW¤, SD @SEMIDARKNESS¤, GC @GROUND COVER¤, CF @CAMOUFLAGE¤, O @OBLIQUITY¤, AND GR @GROUND RESOLUTION¤.
INTERPRETABILITY OF THE PHOTOGRAPHY IS CATEGORIZED AS G @GOOD¤, F @FAIR¤, OR P @POOR¤. THE EXTENT OF TARGET COVERAGE IS DENOTED BY THE SYMBOLS T @TOTAL¤ OR PT @PARTIAL¤. THE MODE OF COVERAGE IS SIGNIFIED BY ST @STEREO¤, NS @NONSTEREO¤, OR PS @PARTIAL STEREO¤.
AAA DEFENSES ARE DIVIDED INTO FOUR BASIC CATEGORIES -- LIGHT @21-75 MM¤, MEDIUM @76-160 MM¤, HEAVY @OVER 160 MM¤, AND AUTOMATIC WEAPONS @ZPU-1, ZPU-2, AND ZPU-4¤. IF THE CATEGORY CANNOT BE DETERMINED, THE SITE WILL BE LISTED AS AN AAA SITE AND THE NUMBER

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OF GUNS INDICATED @EXAMPLE -- 6-GUN AAA SITE, OCCUPIED/UNOCCUPIED¤.

ITEMS OF SPECIAL INTEREST

PUNTA BALLENATOS SA-3 SAM SITE -- THE CONFIGURATION OF THE SITE HAS CHANGED FROM SA-3 TO SA-2.

SANTIAGO DE CUBA EARTH-COVERED BUNKER -- NO ACTIVITY OR CHANGE IS NOTED.

MISSILES

HOLGUIN AIRFIELD SAM SITE CU 2046N 07619W
OB -- 6 EMPLACED LAUNCHERS @3 WITH MISSILES¤, 2 ADDITIONAL LAUNCHERS, 5 MISSILE TRANSPORTERS @3 WITH EXPOSED MISSILES¤, A FAN SONG RADAR, AN ACQUISITION RADAR, 5 CARGO TRUCKS, AND 3 VAN TRAILERS.
NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.
ACTIVITY -- A FAN SONG RADAR WITH ASSOCIATED EQUIPMENT IN A POSSIBLE TRAINING MODE IS LOCATED 1.0 NM ESE OF THE SITE AT UTM 18QUT633973.
@MAP REFERENCE -- AMS SERIES E723, SHEET 4978-III, 1ST ED.¤

[redacted] 25X1

MANAGUA SAM SITE A05-2 CU 2259N 08215W
OB -- 6 EMPLACED LAUNCHERS, 4 PROBABLE MISSILE TRANSPORTERS, A PROBABLE FAN SONG RADAR WITH 5 ASSOCIATED VAN TRAILERS, 1 PROBABLE ACQUISITION RADAR WITH ASSOCIATED GENERATOR VAN, AND AT LEAST 8 OTHER VEHICLES.
ACTIVITY -- 2 OCCUPIED 6-GUN AAA SITES.
NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.

[redacted] 25X1

RANCHUELO SAM SITE A33-2 CU 2223N 08010W
OB -- 6 EMPLACED LAUNCHERS @3 WITH MISSILES¤, 12 MISSILE TRANSPORTERS @3 WITH MISSILES¤, 1 PROBABLE MISSILE TRANSPORTER, A FAN SONG RADAR WITH 5 ASSOCIATED VAN TRAILERS AND A SMALL BUILDING, AN ACQUISITION RADAR WITH 2 GENERATOR VANS, AND 25 OTHER VEHICLES.
NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.

[redacted] 25X1

SANTIAGO DE CUBA SAM SITE A23-2 CU 1959N 07550W
OB -- 6 EMPLACED LAUNCHERS, 16 MISSILE TRANSPORTERS, A FAN SONG RADAR WITH SHED-COVERED EQUIPMENT, 9 AT-S TRACKED PRIME MOVERS, 2 ZIL-157V TRUCK TRACTORS, 10 CARGO TRUCKS, 2 UTILITY TRUCKS, 1 TRUCK-MOUNTED CRANE, AND 3 VAN TRAILERS.
ACTIVITY -- 1 OCCUPIED 6-GUN AAA SITE.
NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.

[redacted] 25X1

SANTIAGO DE CUBA SAM SITE 2 CU 1958N 07549W
OB -- NONE OBSERVED.
CONSTRUCTION CONTINUES.

[redacted] 25X1

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PUNTA BALLENATOS SA-3 SAM SITE CU 2304N 08229W
OB -- NONE OBSERVED.
THE CONFIGURATION OF THE SITE HAS CHANGED FROM SA-3 TO SA-2. THE CHANGES INCLUDE A RADICAL MODIFICATION TO THE 4 PREVIOUSLY EXISTING REVETMENTS, FROM DRIVE-IN TO DRIVE-THROUGH, AND THE CONSTRUCTION OF 2 NEW DRIVE-THROUGH REVETMENTS. THE OUTER AND STAR-SHAPED INNER ROAD PATTERNS ARE UNDER CONSTRUCTION. THE FORMER 2 MISSILE-HOLD POSITIONS HAVE BEEN FILLED IN AND 2 DRIVE-THROUGH MISSILE-HOLD REVETMENTS ARE ALSO UNDER CONSTRUCTION ON THE SOUTH SIDE OF THE SITE. AN ON-SITE SUPPORT AREA OF 4 PROBABLE BARRACKS BUILDINGS IS LOCATED IMMEDIATELY NW OF THE SITE.

[redacted] 25X1

LA HABANA SAM SITE FORT DE LA CABANA CU 2308N 08228W
OB -- NONE OBSERVED.
CONSTRUCTION CONTINUES.

[redacted] 25X1

SANTA CRUZ DEL NORTE CRUISE-MISSILE SITE CU 2309N 08156W
OB -- NONE OBSERVED.
ACTIVITY -- NONE OBSERVED.

[redacted] 25X1

SAN JOSE DE LAS LAJAS CRUISE-MSL STORAGE CU 2255N 08210W
OB -- AT LEAST 25 VEHICLES/PIECES OF EQUIPMENT.
NO APPARENT CHANGE IN FACILITIES.

[redacted] 25X1

SANTIAGO SAM TRAINING AREA CU 1958N 07551W
OB -- 1 MISSILE TRANSPORTER, 6 CARGO TRUCKS, 19 VAN TRUCKS, 3 UTILITY TRUCKS, 1 TRUCK-MOUNTED CRANE, 7 CARGO TRAILERS, AND 4 VAN TRAILERS.

[redacted] 25X1

AIR FACILITIES

HOLGUIN AIRFIELD CU 2047N 07618W
OB -- 7 FISHBED AND 12 FAGOT/FRESCO.
CONSTRUCTION OF AIRCRAFT REVETMENTS CONTINUES.

[redacted] 25X1

ANTONIO MACEO AIRFIELD CU 1958N 07550W
OB -- 1 COOT, 1 C-47, AND 2 MORAVA L-200.

[redacted] 25X1

JOSE MARTI INTERNATIONAL AIRFIELD CU 2259N 08224W
OB -- 27 MEDIUM STRAIGHT-WING AIRCRAFT.

[redacted] 25X1

CAMPO LIBERTAD AIRFIELD CU 2305N 08226W
OB -- 4 PROBABLE FAGOT/FRESCO, 3 PROBABLE ZLIN TRENER, 3 COLT, 22 HOUND, 1 PROBABLE HOUND, AND 9 HELICOPTER FUSELAGES.
FACILITIES -- A NEW HANGAR IS UNDER CONSTRUCTION.

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[redacted] 25X1

BAYAMO AIRFIELD EAST CU 2022N 07637W
OB -- 3 COLT AND 4 HOUND.

[redacted] 25X1

BAYAMO AIRFIELD CU 2023N 07637W
OB -- NONE OBSERVED.
CONSTRUCTION ON FACILITIES CONTINUES.

[redacted] 25X1

NAVAL ACTIVITY/PORTS

SANTIAGO DE CUBA NAVAL BASE AND PORT CU 2001N 07550W
OB -- NONE OBSERVED.
OTHER VESSELS -- 3 LARGE FREIGHTERS AND 3 LARGE TANKERS.

[redacted] 25X1

MATANZAS PORT CU 2302N 08134W
VESSELS -- 1 LARGE FREIGHTER.

[redacted] 25X1

LA HABANA PORT FACILITIES CU 2307N 08228W
OB -- 2 PROBABLE KRONSHTADT, 3 PROBABLE S.O.1, AND 3 KOMAR PTG M2 ON MARINE RAILWAYS.
OTHER VESSELS -- 18 FREIGHTERS, 1 COASTAL TANKER, AND 2 FLOATING DRYDOCKS.

[redacted] 25X1

PUNTA BALLENATOS MARINA CU 2305N 08230W
OB -- 6 SMALL UNIDENTIFIED VESSELS.

[redacted] 25X1

ELECTRONICS/COMMUNICATIONS

SANTIAGO DE CUBA EW/GCI RADAR SITE CU 1959N 07551W
OB -- NONE OBSERVED.
ACTIVITY -- 8 AT-S TRACKED PRIME MOVERS, 11 CARGO TRUCKS, 7 VAN TRUCKS, 2 UTILITY TRUCKS, AND 1 OCCUPIED 6-GUN AAA SITE.
CONSTRUCTION CONTINUES ON THE ARCH-ROOFED BUILDING.

[redacted] 25X1

LA SOCAPA LOW SIEVE RADAR SITE CU 1958N 07552W
OB -- 1 LOW SIEVE RADAR.

[redacted] 25X1

SANTA CRUZ DEL NORTE RADAR SITE CU 2308N 08155W
OB -- 1 TOKEN RADAR, 1 VAN TRUCK, 5 PROBABLE VAN TRAILERS, AND 1 VEHICLE/PIECE OF EQUIPMENT.
NO APPARENT CHANGE IN FACILITIES.

[redacted] 25X1

MILITARY ACTIVITY

RANCHO BOYEROS M[redacted] TRAINING AREA A CAMP CU [redacted]300N 08218W
OB -- AT LEAST 18 FA/AAA PIECES AND 31 VEHICLES.

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[redacted] 25X1

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HOLGUIN MILITARY CAMP CU 2053N 07613W
OB -- TANKS/SP GUNS, CIA-RDP78B03617A000800010004-4 PIECES, 20
MORTARS, 15 BTR [redacted]-P, 2 PROBABLE BTR 50-P, 5 [redacted]TR 152,
106 CARGO TRUCKS, 30 VAN TRUCKS, 4 TRUCK-MOUNTED
CRANES, 12 VAN TRAILERS, AND 4 CARGO TRAILERS.
NO APPARENT CHANGE IN FACILITIES.

[redacted] 25X1

MANAGUA MILITARY CAMP CU 2258N 08217W
OB -- AT LEAST 125 VEHICLES/PIECES OF EQUIPMENT.

[redacted] 25X1

MANICARAGUA STORAGE AREA CU 2206N 07958W
OB -- NONE OBSERVED.
NO APPARENT CHANGE IN FACILITIES.

[redacted] 25X1

NAZARENO MILITARY CAMP CU 2257N 08213W
OB -- AT LEAST 37 VEHICLES.

[redacted] 25X1

SAN JOSE DE LAS LAJAS MILITARY ACTIVITY CU 2258N 08212W
OB -- AT LEAST 30 FA/AAA PIECES AND 13 VAN TRUCKS.
NO APPARENT CHANGE IN FACILITIES.

[redacted] 25X1

SANTA MARIA DEL ROSARIO VEHICLE PARK CU 2303N 08215W
OB -- NONE OBSERVED.
NO APPARENT CHANGE IN FACILITIES.

[redacted] 25X1

CAMPO LIBERTAD VEHICLE PARK CU 2304N 08227W
OB -- 5 POSSIBLE SA-2 MISSILE-TRANSPORTERS, 3 POSSIBLE
MISSILE-CANISTER TRANSPORTERS, AND NUMEROUS
VEHICLES/PIECES OF EQUIPMENT.
NO APPARENT CHANGE IN FACILITIES.
QUALITY AND OBLIQUITY LIMIT INTERPRETATION.

[redacted] 25X1

ALTURAS DE BELEN VEHICLE PARK CU 2305N 08224W
OB -- AT LEAST 15 VEHICLES/PIECES OF EQUIPMENT.
NO APPARENT CHANGE IN FACILITIES.

[redacted] 25X1

MAR VERDE LANDING BEACH CU 1957N 07556W
NO NEW MILITARY ACTIVITY.

[redacted] 25X1

OTHER ACTIVITY

SANTIAGO MIL CAMP SW EARTH-COVERED BUNKER CU 1959N 07550W
NO ACTIVITY OR CHANGE OBSERVED.

[redacted] 25X1

-STATUS OF OTHER TARGETS-

THE FOLLOWING TARGETS COULD BE IDENTIFIED BUT NOT INTERPRETED--

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TORRENS SAM ASSEMBLY AREA	2257N	08227W
SANTIAGO DE LAS VEGAS SAM ASSEMBLY AREA	2257N	08221W
LA HABANA RADAR SITE COJIMAR	2308N	08219W
LA HABANA RADAR SITE EL MORRO NO 1	2309N	08221W
SANTIAGO DE LAS VEGAS MILITARY CAMP	2258N	08220W
SANTIAGO DE LAS VEGAS MIL CAMP SOUTH	2257N	08223W
GUANABACOA MILITARY AREA	2307N	08215W
LOMAS TETAS DE MANAGUA TANK PARK	2258N	08219W

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